

CURRICULUM VITAE

NAME: FRANK PROSPER JOZEF LUYTEN

PLACE OF BIRTH: Oostende, Belgium

HOME ADDRESS: Baron A. D'Huartlaan 193, 1950 Kraainem, Belgium

WORK ADDRESS: Division of Rheumatology
UZ Leuven, Herestraat 49, 3000 Leuven
Phone: 016-342541 FAX: 016-342543
e-mail: frank.luyten@uz.kuleuven.ac.be

CITIZENSHIP: Belgium

LANGUAGES: Dutch, French, English, German

MARITAL STATUS: Married to Catheline de Jonge, 3 children

POSITIONS:

1997-present Professor, Faculty of Medicine, KULeuven and Chairman of the Division of Rheumatology and of the Department of Musculoskeletal Sciences, University Hospitals, Herestraat 49, B-3000 Leuven, Belgium

1993-1997 Senior Scientist
Chief, Developmental Biology Unit
Craniofacial and Skeletal Diseases Branch, National Institute of Dental Research,
National Institutes of Health, Bethesda, MD, USA

1988-1992 Visiting Associate, Bone Cell Biology Section, Laboratory of Cellular Development and Oncology, National Institute of Dental Research, National Institutes of Health, Bethesda, MD, USA

1986-1988 International Fogarty Fellow, Bone Cell Biology Section, Bone Research Branch, National Institute of Dental Research, National Institutes of Health, Bethesda, MD, USA

1983-1986 Resident and Staff Member, Department of Rheumatology, University Hospital Ghent, Belgium, Europe

1980-1983 Resident, Department of Internal Medicine, University Hospital Ghent, Belgium, Europe

GCP/OHC statement:

By signing this CV, I state that I am fully aware of GCP and ICH guidelines for clinical trials, and that I am trained with regarding to these guidelines during several investigator meetings and initiation visits. Last training: June 2004.

EDUCATION and DEGREES:

- Bachelor of Medicine: July, 1976, cum laude.
University of Ghent, Belgium
- Medical Doctor (M.D.): July, 1980, magna cum laude.
University of Ghent, Belgium
- Doctor in Bio-Medical Sciences (Ph.D.):
June, 1986, maxima cum laude.
University of Ghent, Belgium
- Board Certified Rheumatologist (Belgium, W-Europe)
July, 1986

SCIENTIFIC HONORS/AWARDS/FELLOWSHIPS:

- Ciba Award for Research in Rheumatology, 1984.
for the work entitled "Chondrocytes in situ: a long-term organ culture model to study the repair of human articular cartilage", F.P.Luyten
- NATO Research Fellowship, 1986-1987.
- International Fogarty Research Fellowship, 1986-1987.
- NIH Fogarty Fellowships as Visiting Associate and Visiting Scientist, 1988-1997.
- Expert Member of the Scientific Advisory Board, Kennedy Institute for Rheumatology, UK, 1996.
- Member of the Study Section Oral Biology/Medicine, NIH, USA, 1996-1997.
- Expert reviewer for the Human Science Frontier Program, 1996-1997.
- Expert-Reviewer INSERM 2002-
- Scientific Advisor- Instituts de Biotherapie-, Montpellier, France

PATENT APPLICATIONS:

PCT/US94/12814

Cartilage-derived Morphogenetic Proteins, novel members of the TGF- β superfamily"

Principal inventor: F. P. Luyten

US Application 10/379,830

PCT/US97/18362 – 10/014,055

Isolation and use of tissue growth inducing FRZB protein

Principal inventor: F. P. Luyten

Publication N° US-2003-0139591

US patent 09/851,921 – US Patent N° 6,617,161

Serum-free cell growth medium

Principal Inventor: F. P. Luyten

WO2004012503

Compositions comprising muscle progenitor cells and uses thereof.

Inventor(s): DE BARI, Cosimo; LUYTEN, Frank; DELL'ACCIO, Francesco

Filed 30/07/2003

Published 12/02/2004

Applicant Tigenix

WO2003000724

Polynucleotide sequences and vectors useful for the prevention or treatment of bone- or cartilage-related disorders

Inventor(s): LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco

Filed 08/03/2002

Published 03/01/2003

Applicant Tigenix

GB2385052

Treatment of spondyloarthropathies

Inventor(s): Luyten, Frank; Lories, Rik

Filed 20020205

Published 20030813

Applicant K U Leuven Research & Development

WO2003066081

BMP inhibitors for the treatment of spondyloarthropathies

Inventor(s): LUYTEN, Frank; LORIES, Rik

Filed 05/02/2003

Published 14/08/2003

Applicant K U Leuven Research & Development

US20030235813

In vivo assay and molecular markers for testing the phenotypic stability of cell populations, and selecting cell populations for autologous transplantation

Inventor(s): Luyten, Frank; De Bari, Cosimo; Dell'Accio, Francesco

Filed 24/04/2003

Published 25/12/2003

Applicant Tigenix

WO0124833

In vivo assay for testing the phenotypic stability

Inventor(s): LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco

Filed 06/10/2000

Published 12/04/2001

Applicant Tigenix

EP1218037

In vivo assay for testing the phenotypic stability

Inventor(s): LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco

Filed 06/10/2000

Published 03/07/2002

Applicant Tigenix

WO0125402

Isolation of precursor cells and their use for tissue repair

Inventor(s): LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco

Filed 06/10/2000

Published 12/04/2001

Applicant Tigenix

EP1282690

Isolation of precursor cells and their use for tissue repair

Inventor(s): LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco

Filed 06/10/2000

Published 12/02/2003

Applicant Tigenix

US20030176683 A1

Cartilage-derived morphogenetic proteins

Inventor(s): Luyten, Frank, P.; Moos, Malcolm; Chang, Steven, Chao-Huan

Filed 03/03/2003

Published 18/09/2003

Applicant

US20010037017 A1

DNA molecules encoding cartilage-derived morphogenetic proteins

Inventor(s): Luyten, Frank, P.; Moos, Malcolm; Chang, Steven, Chao-Huan

Filed 13/12/2000

Issued 01/11/2001

Applicant

US20030185898 A1

Cartilage-Derived morphogenetic proteins

Inventor(s): Luyten, Frank, P.; Moos, Malcolm; Chang, Steven, Chao-Huan

Filed 1/5/2000

Published 2/10/2003

Applicant

US20010011131 A1

DNA molecules encoding cartilage-derived morphogenetic proteins

Inventor(s): Luyten, Frank, P.; Moos, Malcolm; Chang, Steven, Chao-Huan

Filed 5/12/2000

Issued 2/08/2001

Applicant

US20010039050 A1

Serum-free cell growth medium

Inventor(s): Luyten, Frank P.; Erlacher, Ludwig

Filed 9/11/2001

Issued 8/11/2001

Applicant The United States of America as represented by the Department of Health and Human Services

WO9859035 A2

Serum-free cell growth medium

Inventor(s): Luyten, Frank P.; Erlacher, Ludwig

Filed 22/06/1998

Published 30/12/1998

Applicant The United States of America as represented by the Department of Health and Human Services

US6617161 B2

Serum-free cell growth medium

Inventor(s): Luyten, Frank P.; Erlacher, Ludwig
Filed 09/05/2001
Issued 9/09/2003
Applicant The United States of America as represented by the Department of Health and Human Services

WO9816641 A1

Isolation and method of using tissue growth-inducing Frzb protein
Inventor(s): Luyten, Frank P.; Moos, Malcolm; Hoang, Bang; Wang, Shouwen
Filed 8/10/1997
Published 23/04/1998
Applicant The United States of America as represented by the Department of Health and Human Services

US20030009023 A1

Isolation and method of using tissue growth-inducing Frzb protein
Inventor(s): Luyten, Frank P.; Moos, Malcolm; Hoang, Bang; Wang, Shouwen
Filed 28/02/2002
Published 9/01/2003
Applicant The United States of America as represented by the Department of Health and Human Services

US20020147329 A1

Method of modulating tissue growth using Frzb protein
Inventor(s): Luyten, Frank P.; Moos, Malcolm; Hoang, Bang; Wang, Shouwen
Filed 19/12/2001
Published 10/10/2002

US20030139591 A1

Isolation and use of tissue growth-inducing Frzb protein
Inventor(s): Luyten, Frank P.; Moos, Malcolm; Hoang, Bang; Wang, Shouwen
Filed 07/12/2001
Published 24/07/2003

WO9614335 A1

CARTILAGE-DERIVED MORPHOGENETIC PROTEINS
Inventor(s): LUYTEN, Frank, P.; MOOS, Malcolm, Jr.; CHANG, Steven, Chao-Huan
Filed 19941107
Published 19960517
Applicant THE GOVERNMENT OF THE UNITED STATES OF AMERICA

TEACHING EXPERIENCE; DOCTORAL AND POSTDOCTORAL TRAINEES

- FAES advanced postdoctoral course in the Biochemistry of Connective Diseases, National Institutes of Health, Bethesda, MD 20892, USA ,1993.
- Seminars for summer students at the NIDR, National Institutes of Health, Bethesda, MD, USA, from 1995-1997.
- Summer Students (1-2 per year, 1992-1997).
- Promotor or Co-Promotor Doctoral Students:
 - Marco Helder, Ph.D., (1992-1993)
 - Bang Hoang, M.D., Howard Hughes Research Fellow, (1993-1995)
 - Steven Chang, M.D. (1993-1994)
 - Francesco Dell'Accio, M.D. (1997-2003)
 - Cosimo De Bari, M.D. (1997-2003)

Rik Lories, M.D. (1998-2003)
Jeroen Eyckmans (2001-present)
Marechal Marina (2003-2006)
Melina Daans (2003-present)
Giovanni Matricali (2003-present)
Nijs Stefaan (2003-present)
Bellon Ellen (2005-present)

- Postdoctoral Trainees:

Ping Chen, Ph. D. (1992-1995)
Sharon Tomaski, M.D. (1992-1993)
Keming Lin, M.D. (1994-1997)
Terrig Thomas, Ph.D. (1994-1997)
Ludwig Erlacher, M.D. (1995-1997)
Chee Keng Ng, Ph.D. (1996-1997)
Premyslav Tylzanowski, Ph.D. (1997-present)
Dirk De Valck, Ph.D. (1998-2004)
Rik Lories, M.D., Ph.D. (2003-present)
Astrid Bakker, Ph.D. (2004-present)

- Visiting Scholars:

Georges Zalzal, M.D., Associate Professor and Chair of the Department of Otolaryngology at the Children's National Medical Center, Washington D.C., USA (1992)
Slobodan Vukicevic, M.D., Professor, Department of Anatomy and Cell Biology, Zagreb University Medical School, Zagreb, Croatia (1992-1995)

EDITORIAL BOARD MEMBER:

- Annals of the Rheumatic Diseases
- Bone
- Journal of Dental Research

BIBLIOGRAPHY:

PEER REVIEWED INTERNATIONAL ARTICLES

1. VERBRUGGEN G, LUYTEN F, SUYKENS S, VEYS EM. (+)-Catechin in articular disease? Acta Rhumatologica Belgica, 1980; 4: 178-81.
2. VERBRUGGEN G, VEYS EM, LUYTEN FP. Dedifferentiation of human Chondrocytes in monolayer culture. Clin Rheumatol 1984; 3: 97-8. IF:1.15
3. VERBRUGGEN G, LUYTEN F, VEYS EM. Repair function in organ-cultured human cartilage. Replacement of enzymatically removed proteoglycans during long-term organ culture. J Rheumatol 1985; 4: 665-74. IF:2.86
CI:22
4. LUYTEN FP, SUYKENS S, VEYS EM, VAN LERBEIRGHE J, ACKERMAN C, MIELANTS H, VERBRUGGEN G. Peripheral blood T lymphocyte subpopulations determined by monoclonal antibodies in active rheumatoid arthritis. J Rheumatol, 1986; 13: 864-9. IF:2.86
CI:21
5. LUYTEN FP, VERBRUGGEN G, VEYS EM, GOFFIN E, DE PYPERE H. In vitro repair potential of articular cartilage. Proteoglycan metabolism in the different areas of the femoral condyles in human cartilage explants. J Rheumatol 1987; 2: 329-34. IF:2.86
CI:5
6. LUYTEN FP, VERBRUGGEN G, VEYS EM. Reparative response of human articular cartilage in tissue culture. Comparison between a normal and an osteoarthritic knee of the same donor. Clin Exp Rheumatol 1987; 5: 103-10. IF:1.50
CI:4
7. LUYTEN FP, HASCALL VC, NISSLEY SP, MORALES TI, REDDI AH. Insulin-like growth factors maintain steady state metabolism of proteoglycans in bovine articular cartilage explants. Arch Biochem Biophys 1988; 267: 416-25. IF:2.66
CI:170
8. DE KEYZER F, VERBRUGGEN G, VEYS EM, LUYTEN F, SEGERS J, RABAEY M. Microgel immunoblotting of thymus and nuclear extracts by unidirectional diffusion. Anal Biochem 1989; 176: 350-2. IF:2.37
CI:5
9. LUYTEN FP, CUNNINGHAM NS, MA S, MUTHUKUMARUN R, HAMMONDS RG, NEVINS WB, WOOD WI, REDDI AH. Purification and partial amino acid sequence of osteogenin, a protein initiating bone cell differentiation. J Biol Chem 1989; 264: 13377-80. IF:6.36
CI:243
10. VUKICEVIC S, LUYTEN FP, REDDI AH. Stimulation of the expression of osteogenic and chondrogenic phenotypes in vitro by osteogenin. Proc Natl Acad Sci USA 1989; 86: 8793-7. IF:10.45
CI:181
11. REDDI AH, MUTHUKUMARAN N, MA S, CARRINGTON JL, LUYTEN FP, PARALKAR VM, CUNNINGHAM NS. Initiation of bone development by osteogenin and promotion by growth factors. Connect Tissue Res 1989; 20: 303-12. IF:1.15
CI:27

12. VUKICEVIC S, LUYTEN FP, REDDI AH. Osteogenin inhibits proliferation and stimulates differentiation in mouse osteoblast-like cells (MC3T3-E1). **Biochem Bioph Res Co** 1990; 166: 750-6. IF:2.90
CI:51

13. VUKICEVIC S, LUYTEN FP, KLEINMAN HK, REDDI AH. Differentiation of canalicular cell processes in bone cells by basement membrane matrix components: regulation by discrete domains of laminin. **Cell** 1990; 63: 437-45. IF:28.39
CI:113

14. HARRISON ET, LUYTEN FP, REDDI AH. Osteogenin promotes re-expression of cartilage phenotype by dedifferentiated chondrocytes in agarose. **Exp Cell Res** 1991; 192: 340-5. IF:4.01
CI:31

15. LUYTEN FP, YU M YU, YANAGISHITA M, VUKICEVIC S, HAMMONDS RG, REDDI AH. Natural bovine osteogenin and recombinant human bone morphogenetic protein 2B are equipotent in the maintenance of the steady-state of proteoglycans in bovine articular cartilage explants. **J Biol Chem** 1992; 267: 3691-5. IF:6.36
CI:82

16. ZALZAL GM, LUYTEN FP. An in vitro model for studying growth, and effects of trauma and external agents on the cricoid at the cellular level. **Arch Otolaryngol** 1992; 118: 407-11. IF:1.41
CI:4

17. HARRISON ET Jr, LUYTEN FP, REDDI AH. Transforming growth factor-beta: its effect on phenotype reexpression by dedifferentiated chondrocytes, in the presence and absence of osteogenin. **In Vitro Cell and Dev Biology** 1992; 28: 445-8. IF:0.39
CI:10

18. VUKICEVIC S, LUYTEN FP, KLEINMAN H, CUNNINGHAM N, ROBERTS A, REDDI AH. Growth factors in reconstituted basement membrane (Matrigel) modulate the network formation by immature osteoblastic cells. **Exp Cell Res** 1992; 202: 1-8. IF:4.01
CI:226

19. CASTRONOVO V, LUYTEN FP, VAN DEN BROULE F, SOBEL ME. Identification of a 14kDa laminin binding protein (HLBP 14) in human melanoma cells that is identical to the 14 kDa galactoside binding lectin. **Arch Biochem Biophys** 1992; 297: 132-8. IF:2.66
CI:37

20. SCHAFER SJ, LUYTEN FP, YANAGISHITA M, REDDI AH. Age related modulation of proteoglycan metabolism by isoforms of PDGF in bovine articular cartilage explants. **Arch Biochem Biophys** 1993; 302: 431-8. IF:2.66
CI:13

21. CHEN P, VUKICEVIC S, SAMPATH TK, LUYTEN FP. Bovine articular chondrocytes do not undergo hypertrophy in the presence of serum and osteogenic protein-1. **Biochem Bioph Res Co** 1993; 197: 1253-9. IF:2.90
CI:36

22. LUYTEN FP, CHEN P, PARALKAR V, REDDI AH. Influence of BMP-4, TGF- β , activin A and inhibin A on bovine articular cartilage. **Exp Cell Res** 1994; 210: 224-9. IF:4.01
CI:70

23. STOJILKOVIC S, VUKICEVIC S, LUYTEN FP. Calcium signalling in endothelin- and platelet-derived growth factor-stimulated chondrocytes. **J Bone Miner Res** 1994; 9: 705-14. IF:5.44
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| <p>24. VUKICEVIC S, HELDER M, LUYTEN FP. The developing human lung and kidney are the major sites of synthesis of Bone Morphogenetic Protein-3. <u>J Histochem Cytochem</u> 1994; 42: 869-75.</p> | <table border="1"> <tr> <td>IF:2.51
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| <p>25. CHANG S, HOANG B, THOMAS JT, VUKICEVIC S, LUYTEN FP*, RYBA N, KOZAK CH A, REDDI AH, MOOS M. Cartilage-Derived Morphogenetic Proteins: new members of the TGF-β superfamily, predominantly expressed in long bones during human embryonic development. <u>J Biol Chem</u> 1994; 269: 28227-34. * <u>corresponding author</u></p> | <table border="1"> <tr> <td>IF:6.36
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| <p>26. CHEN P, VUKICEVIC S, SAMPATH TK, LUYTEN FP. Osteogenic protein-1 promotes growth and maturation of chick sternal chondrocytes in serum-free cultures. <u>J Cell Sci</u> 1995; 108: 105-14.</p> | <table border="1"> <tr> <td>IF:6.91
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| <p>27. HELDER M, ÖZKAYNAK E, SAMPATH TK, LUYTEN FP, LATIN V, OPPERMAN H, VUKICEVIC S. Kidney, Heart and developing Bone are the major sites of synthesis of OP-1 (BMP-7). <u>J Histochem Cytochem</u> 1995; 43: 1035-44.</p> | <table border="1"> <tr> <td>IF:2.51
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| <p>28. LUYTEN FP. Cartilage-derived Morphogenetic Proteins: Key Regulators in Chondrocyte differentiation ? <u>Acta Orthop Scand Suppl.</u> 1995, 66, 51-4.</p> | <table border="1"> <tr> <td>IF:1.02
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| <p>29. HOANG B, MOOS M, VUKICEVIC S, LUYTEN FP. Structure and Expression Pattern of Frzb, a Novel <i>frizzled</i> Related Protein, Suggest a Role in Skeletal Morphogenesis, <u>J Biol Chem</u> 1996; 271: 26131-7.</p> | <table border="1"> <tr> <td>IF:6.36
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| <p>30. BASIC N, BASIC V, BULIC K, GRGIC M, KLEINMAN HK, LUYTEN FP, VUKICEVIC S. TGF-β from basement membrane matrigel stimulates the chondrogenic phenotype in osteoblastic cells derived from fetal rat calvaria. <u>J Bone Miner Res</u> 1996; 11: 384-91.</p> | <table border="1"> <tr> <td>IF:5.44
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| <p>31. VUKICEVIC S, KOPP J, LUYTEN FP, SAMPATH TK. Induction of nephrogenic mesenchyme by osteogenic protein-1. <u>Proc Natl Acad Sci USA</u> 1996; 93: 9021-6.</p> | <table border="1"> <tr> <td>IF:10.45
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| <p>32. THOMAS JT, LIN K, NANDEDKAR M, MC BRIDE W, CAMARGO M, CERVENKA J, LUYTEN FP. A Human Chondrodysplasia (Hunter-Thompson type) due to a Mutation in a Cartilage-derived TGF-β Superfamily Member. <u>Nat Genet</u> 1996; 12: 315-7.</p> | <table border="1"> <tr> <td>IF:24.70
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| <p>33. LIN K, THOMAS JT, MC BRIDE WO, LUYTEN FP. Assignment of a new TGF-β superfamily member, human cartilage-derived morphogenetic protein-1 to chromosome 20q11.2. <u>Genomics</u> 1996; 34: 150-1.</p> | <table border="1"> <tr> <td>IF:3.84
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| <p>34. FRANCIS-WEST PH, RICHARDSON MK, BELL E, CHEN P, LUYTEN FP, ADELFAH A, BARLOW AJ, BRICKELL PM, WOLPERT L, ARCHER CW. The effect of overexpression of BMPs and GDF-5 on the development of chick limb skeletal elements. <u>Ann NY Acad Sci</u> 1996; 785: 254-5.</p> | <table border="1"> <tr> <td>IF:1.78
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CI: 14 |
| 36. WANG S, KRINKS M, LIN K, LUYTEN FP, MOOS M JR. Frzb, a secreted protein expressed in the Spemann Organizer, binds and counteracts Wnt-8. <u>Cell</u> 1997; 88: 757-66. | IF:28.39
CI:251 |
| 37. THOMAS JT , KILPATRICK M, LIN K, ERLACHER L, LEMBESSIS P, COSTA T, TSIPOURAS P, LUYTEN FP. Disruption of limb morphogenesis by a dominant negative mutation in cartilage- derived morphogenetic protein-1. <u>Nat Genet</u> 1997; 17: 58-64. | IF:24.70
CI:114 |
| 38. LIN K, WANG S, KITAJEWSKI J, MOOS M JR, LUYTEN FP. The cysteine-rich domain of Frzb is required and sufficient for its modulation of wnt signalling. <u>Proc Natl Acad Sci USA</u> 1997; 94: 11196-200. | IF:10.45
CI:69 |
| 39. POLINKOVSKY A, ROBIN NH, THOMAS JT, IRONS M, LYNN A, CHITAYAT D, GOODMAN F, REARDON W, KANT S, BRUNNER HG, VAN DER BURGT I, LUYTEN FP, WARMAN ML. Mutations in the morphogen CDMP-1 cause autosomal dominant Brachydactyly C. <u>Nat Genet</u> 1997; 17: 18-20. | IF:24.70
CI:94 |
| 40. LUYTEN FP. "A Scientific Basis for the Biological Regeneration of Synovial Joints." <u>Oral Surg Oral Med Oral Pathol</u> , 1997, 83, 167-9. | IF:0.97
CI:2 |
| 41. ERLACHER L, NG CK, ULRICH R, KRIEGER S, LUYTEN FP. Presence of Cartilage-derived Morphogenetic Proteins in articular Cartilage and enhancement of matrix replacement <i>in vitro</i> . <u>Arthritis Rheum</u> 1998; 41: 263-73. | IF:7.41
CI:38 |
| 42. ERLACHER L, MC CARTNEY J, PIEK E, TEN DIJKE P, YANAGISHITA M, OPPERMAN H, LUYTEN FP. Cartilage-Derived Morphogenetic Proteins and Osteogenic Protein-1 Differentially Regulate Osteogenesis. <u>J Bone Miner Res</u> 1998; 13: 383-92. | IF:5.44
CI:51 |
| 43. PEICHEL C, KOZAK CA, LUYTEN FP, VOGT T. Evaluation of mouse Sfrp3/Frzb-1 as a candidate for the <i>lst</i> , <i>Ul</i> and <i>Far</i> mutants on Chromosome 2. <u>Mamm Genome</u> 1998; 9: 385-7. | IF:2.66 |
| 44. HOANG BH, THOMAS JT, ABDUL-KARIM FW, CORREIA KM, CONLON RA, LUYTEN FP, BALLOCK RT. Expression pattern of two Frizzled-related genes, Frzb-1 and Sfrp-1, during mouse embryogenesis suggests a role for modulating action of Wnt family members. <u>Dev Dynam</u> 1998; 212: 364-72. | IF2.87
CI:36 |
| 45. TSUMAKI N, TANAKA K, ARIKAWA-HIRASAWA E, NAKASE T, KIMURA T, THOMAS JT, OCHI T, LUYTEN F, YAMADA Y. Morphogenesis: Promotion of Mesenchymal cell recruitment and chondrocyte differentiation. <u>J Cell Biol</u> 1999; 144: 161-73. | IF:11.60
CI:44 |
| 46. FRANCIS-WEST PH, ABDELFAH A, CHEN P, PARISH J, LADHER R, ALLEN S, MAC PHERSON S, LUYTEN FP, ARCHER WC. Mechanisms of GDF-5 | IF:7.15
CI:70 |

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47. LIU Z, LUYTEN FP, LAMMENS J and DEQUEKER J. Molecular signaling in bone fractures healing and distraction osteogenesis. **Histol Histopathol**, 1999, 14, 587-95. IF:1.93
CI:23
 48. LADHER RK, CHURCH VL, ALLEN S, ROBSON L, ABDELFATTAH A, BROWN NA, HATTERSLEY G, ROSEN V, LUYTEN FP, DALE L, FRANCIS-WEST PH. Cloning and Expression of the Wnt Antagonists *Sfrp-2* and *Frzb* during Chick Development. **Dev Biol** 2000; 218: 183-198. IF:5.43
CI:57
 49. GRUBER R, MAYER C, SCHULZ W, GRANINGER W, PETERLIK M, WATZEK G, LUYTEN FP, ERLACHER L. Stimulatory effects of cartilage-derived morphogenetic proteins 1 and 2 on osteogenic differentiation of bone marrow stromal cells. **Cytokine**, 2000, 12 (11), 1630-8. IF1.99
CI:19
 50. DEQUEKER J, LUYTEN FP. Bone mass and osteoarthritis. **Clin Exp Rheumatol**, 2000; 18 (suppl.21): S21-S26. IF:1.50
CI:4
 51. DE BARI C, DELL'ACCIO F, LUYTEN FP. Human periosteum-derived cells maintain phenotypic stability and chondrogenic potential throughout expansion regardless of donor age. **Arthritis Rheum** 2001; 44: 85-95 IF:7.41
CI: 18
 52. LORIES RJU, LUYTEN FP. Osteoprotegerin and osteoprotegerin-ligand balance: a new paradigm in bone metabolism providing new therapeutic targets. **Clin Rheumatol** 2001; 20: 3-9. IF:1.12
CI:8
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